



Tennessee Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower,
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

1. MS4 Information

Name of MS4: Bradley County		MS4 Permit Number: TNS077771	
Contact Person: Amanda Peels		Email Address: apeels@bradleycountyttn.gov	
Telephone: (423) 728-7108		MS4 Program Web Address: bradleycountyttn.gov/stormwater_dept.html	
Mailing Address: 155 Broad Street NW			
City: Cleveland	State: TN	ZIP code: 37311	

What is the current population of your MS4? 25,460

What is the reporting period for this annual report? July 1 2016 to June 30 2017

2. Discharges to Waterbodies with Unavailable Parameters or Exceptional Tennessee Waters (Section 3.1)

- A. Does your MS4 discharge into waters with unavailable parameters (previously referred to as impaired) for pathogens, nutrients, siltation or other parameters related to stormwater runoff from urbanized areas as listed on TN's most current 303(d) list and/or according to the on-line state GIS mapping tool (tdeconline.tn.gov/dwr/)? If yes, attach a list. ☒ Yes ☐ No
- B. Are there established and approved TMDLs (<http://www.tn.gov/environment/article/wr-ws-tennessees-total-maximum-daily-load-tmdl-program>) with waste load allocations for MS4 discharges in your jurisdiction? If yes, attach a list. ☒ Yes ☐ No
- C. Does your MS4 discharge to any Exceptional Tennessee Waters (ETWs - http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34304:4880790061142)? If yes, attach a list. ☒ Yes ☐ No
- D. Are you implementing specific Best Management Practices (BMPs) to control pollutant discharges to waterbodies with unavailable parameters or ETWs? If yes, describe the specific practices: Routinely conduct Dry Weather Screenings of all major outfalls, maintain an up to date list of identified Hotspot locations, enforce pre-construction and post construction requirements for all construction activity discharging within or adjacent to a waterbody, organize multiple annual stream clean-up events, continually publish PSA's and distribute literature to educate and increase awareness. ☒ Yes ☐ No

3. Public Education/Outreach and Involvement/Participation (Sections 4.2.1 and 4.2.2)

- A. Have you developed a Public Information and Education plan (PIE)? ☒ Yes ☐ No
- B. Is your public education program targeting specific pollutants and sources, such as Hot Spots? If yes, describe the specific pollutants and/or sources targeted by your public education program: Sediment from Construction Site Run-off, Escherichia coli, from Pasture Grazing and Pet Waste, Oil/Grease from Food Service Industries, Automotive Fluids, and Fuel from Automotive Industries & large Commercial Parking Lots, Chlorinated Pools Dewatering from Residential Neighborhoods, Herbicides/Pesticides from CAF Operations, and other Agricultural Operations, Detergents from vehicle and equipment washing activities. ☒ Yes ☐ No

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

C. Do you have a webpage dedicated to your stormwater program? If yes, provide a link/URL: bradleycountyttn.gov/stormwater_dept.html ☒ Yes ☐ No

D. Summarize how you advertise and publicize your public education, outreach, involvement, and participation opportunities: Publications in local newspaper, webpage, social media, invitation emails, and public event flyers.

E. Summarize the public education, outreach, involvement and participation activities you completed during this reporting period: CSCC Greenway Clean-up, Fall House Hold Hazardous Waste Collection Day, TN River Rescue, 100 Tree Day, Great American Clean-up, Spring House Hold Hazardous Waste Collection Day, All About the Green, Recycle 5-K Run, Junior Ranger Camp Project Wet, Recycle Challenge, Bradley County Schools Project Wet, 5 Points Museum Water Ways Festival.

F. Summarize any specific successful outcome(s) (e.g., citizen involvement, pollutant reduction, water quality improvement, etc.) fully or partially attributable to your public education and participation program during this reporting period: Increasing the number of annual clean-up events has increased the overall participation, and decreased the total weight of disposed trash and debris removed from the streams.

4. Illicit Discharge Detection and Elimination (Section 4.2.3)

A. Have you developed and do you continue to update a storm sewer system map that shows the location of system outfalls where the municipal storm sewer system discharges into waters of the state or conveyances owned or operated by another MS4? ☒ Yes ☐ No

B. If yes, does the map include inputs into the storm sewer collection system, such as the inlets, catch basins, drop structures or other defined contributing points to the sewershed of that outfall, and general direction of stormwater flow? ☒ Yes ☐ No

C. How many outfalls have you identified in your storm sewer system? 200

D. Do you have an ordinance, or other regulatory mechanism, that prohibits non-stormwater discharges into your storm sewer system? ☒ Yes ☐ No

E. Have you implemented a plan to detect, identify, and eliminate non-stormwater discharges, including illegal disposal, throughout the storm sewer system? If yes, provide a summary: Provide new hire and annual educational training sessions for relevant municipal employees, promote education and awareness targeting the general public by publishing PSA's, distribute literature and promotional materials that publicizes the Stormwater Pollution Prevention Hotline. Respond to discharge reports with investigation procedures within a 24 hours of receiving a report, conduct routine Dry Weather Screening down stream of all major outfalls, and perform routine monitoring of all MS4 discharge points. ☒ Yes ☐ No

F. How many illicit discharge related complaints were received this reporting period? 2

G. How many illicit discharge investigations were performed this reporting period? 2

H. Of those investigations performed, how many resulted in valid illicit discharges that were addressed and/or eliminated? 0

5. Construction Site Stormwater Runoff Pollutant Control (Section 4.2.4)

A. Do you have an ordinance or other regulatory mechanism requiring:

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

- I. Does your program include an off-site stormwater mitigation or payment into public stormwater fund? If yes, specify. See the attached Section 4.(e) of the Ordinance ☒ Yes ☐ No

7. Stormwater Management for Municipal Operations (Section 4.2.6)

- A. As applicable, have stormwater related operation and maintenance plans that include information related to maintenance activities, schedules and the proper disposal of waste from structural and non-structural stormwater controls been developed and implemented at the following municipal operations:
- | | | |
|--|---|--|
| Streets, roads, highways? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Municipal parking lots? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Maintenance and storage yards? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Fleet or maintenance shops with outdoor storage areas? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Salt and storage locations? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Snow disposal areas? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Waste disposal, storage, and transfer stations? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. Do you have a training program for employees responsible for municipal operations at facilities within the jurisdiction that handle, generate, and/or store materials which constitute a potential pollutant of concern for MS4s? ☒ Yes ☐ No
- If yes, are new applicable employees trained within six months, and existing applicable employees trained and/or retrained within the permit term? ☒ Yes ☐ No

8. Reviewing and Updating Stormwater Management Programs (Section 4.4)

- A. Describe any revisions to your program implemented during this reporting period including but not limited to:
- Modifications or replacement of an ineffective activity/control measure.
- Changes to the program as required by the division to satisfy permit requirements. Implemented a new software program (MS4web) designed to provide a data base used for tracking outfalls, construction sites, facilities, and hotspot locations.
- Information (e.g. additional acreage, outfalls, BMPs) on newly annexed areas and any resulting updates to your program. Increased total number of outfalls reported this period due to incorrect data. The MS4web tracking software was implemented as of September 2017, and the MS4 mapping data is currently in the process of being updated and is scheduled to be completed on or before 06/30/2018.
- B. In preparation for this annual report, have you performed an overall assessment of your stormwater management program effectiveness? If yes, summarize the assessment results, and any modifications and improvements scheduled to be implemented in the next reporting period. Overall program assesement should be performed using current permit data and criteria; Assessment will be performed following the closing of the upcoming reporting period 6/30/2018. ☐ Yes ☒ No

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

Construction site operators to implement appropriate erosion prevention and sediment control BMPs consistent with those described in the TDEC EPSC Handbook? ☒ Yes ☐ No

Construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste? ☒ Yes ☐ No

Design storm and special conditions for unavailable parameters waters or Exceptional Tennessee Waters consistent with those of the current Tennessee Construction General Permit (TNR100000)? ☒ Yes ☐ No

B. Do you have specific procedures for construction site plan (including erosion prevention and sediment BMPs) review and approval? ☒ Yes ☐ No

C. Do you have sanctions to enforce compliance? ☒ Yes ☐ No

D. Do you hold pre-construction meetings with operators of priority construction activities and inspect priority construction sites at least monthly? ☒ Yes ☐ No

E. How many construction sites disturbing at least one acre or greater were active in your jurisdiction this reporting period? 3

F. How many active priority and non-priority construction sites were inspected this reporting period? 3

G. How many construction related complaints were received this reporting period? 0

6. Permanent Stormwater Management at New Development and Redevelopment Projects (Section 4.2.5)

A. Do you have a regulatory mechanism (e.g. ordinance) requiring permanent stormwater pollutant removal for development and redevelopment projects? If no, have you submitted an Implementation Plan to the Division? ☒ Yes ☐ No
☐ Yes ☐ No

B. Do you have an ordinance or other regulatory mechanism requiring:
Site plan review and approval of new and re-development projects? ☒ Yes ☐ No

A process to ensure stormwater control measures (SCMs) are properly installed and maintained? ☒ Yes ☐ No

Permanent water quality riparian buffers? If yes, specify requirements: See the attached documents both Appendix B of the Ordinance and Appendix C of the SWMP. Both regulatory mechanism requires minimal revisions to meet full permit requirements; this revision is scheduled to be completed on or before 06/30/2018. ☒ Yes ☐ No

C. What is the threshold for development and redevelopment project plans plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? Any development disturbing one acre or greater of land, is required to submit for plans review and permitting. Development Plans must meet design standards and criteria as required by NPDES Permit to achieve the Pollutant Removal, and criteria for Permanent Stormwater Controls, by developing a Permanent Water Quality Riparian Buffer Zone.

D. How many development and redevelopment project plans were reviewed for this reporting period? 2

E. How many development and redevelopment project plans were approved? 1

F. How many permanent stormwater related complaints were received this reporting period? 0

G. How many enforcement actions were taken to address improper installation or maintenance? 0

H. Do you have a system to inventory and track the status of all public and private SCMs installed on development and redevelopment projects? ☐ Yes ☒ No

9. Enforcement Response Plan (Section 4.5)

- A. Have you implemented an enforcement response plan that includes progressive enforcement actions to address non-compliance, and allows the maximum penalties specified in TCA 68-221-1106? If no, explain. _____ ☒ Yes ☐ No
- B. As applicable, identify which of the following types of enforcement actions (or their equivalent) were used during this reporting period; indicate the number of actions, the minimum measure (e.g., construction, illicit discharge, permanent stormwater management), and note those for which you do not have authority:

<u>Action</u>	<u>Construction</u>	<u>Permanent Stormwater</u>	<u>Illicit Discharge</u>	<u>In Your ERP?</u>	
Verbal warnings	#2	# _____	#2	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Written notices	#3	# _____	#3	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Citations with administrative penalties	# _____	# _____	#1	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stop work orders	#2	# _____	#1	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Withholding of plan approvals or other authorizations	# _____	# _____	# _____	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Additional Measures	# _____	# _____	# _____	Describe: _____	

- C. Do you track instances of non-compliance and related enforcement documentation? ☒ Yes ☐ No
- D. What were the most common types of non-compliance instances documented during this reporting period?
Failure to provide inspection documentation as required.

10. Monitoring, Recordkeeping and reporting (Section 5)

- A. Summarize any analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. See the attached document containing a proposal plan for Option 2.
- B. Summarize any non-analytical monitoring activities (e.g., planning, collection, evaluation of results) performed during this reporting period. See the attached document containing a proposal plan for Option 2.
- C. If applicable, are monitoring records for activities performed during this reporting period submitted with this report. ☐ Yes ☒ No

11. Certification

Phase II Small Municipal Separate Storm Sewer System (MS4) Annual Report

This report must be signed by a ranking elected official or by a duly authorized representative of that person. See signatory requirements in sub-part 6.7.2 of the permit.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

D. Gary Davis,
Bradley County Mayor

Printed Name and Title



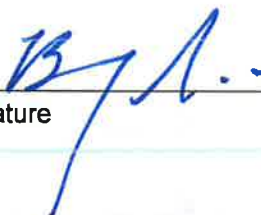
Signature

1/19/18

Date

J. Bently Thomas,
Director of Planning &
Inspections

Printed Name and Title



Signature

1/19/18

Date

Annual reports must be submitted by September 30 of each calendar year (Section 5.4) to the appropriate Environmental Field Office (EFO), identified in the table below:

EFO	Street Address	City	Zip Code	Telephone
Chattanooga	1301 Riverfront Pkwy, Suite 206	Chattanooga	37402	(423) 634-5745
Columbia	1421 Hampshire Pike	Columbia	38401	(931) 380-3371
Cookeville	1221 South Willow Ave.	Cookeville	38506	(931) 520-6688
Jackson	1625 Hollywood Drive	Jackson	38305	(731) 512-1300
Johnson City	2305 Silverdale Road	Johnson City	37601	(423) 854-5400
Knoxville	3711 Middlebrook Pike	Knoxville	37921	(865) 594-6035
Memphis	8383 Wolf Lake Drive	Bartlett	38133	(901) 371-3000
Nashville	711 R S Gass Boulevard	Nashville	37216	(615) 687-7000